

Supporting Information for

Synthesis, Characterization and Antiproliferative Activity of Novel Chiral [QuinoxP*AuCl₂]⁺ Complexes

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NMR Spectra:

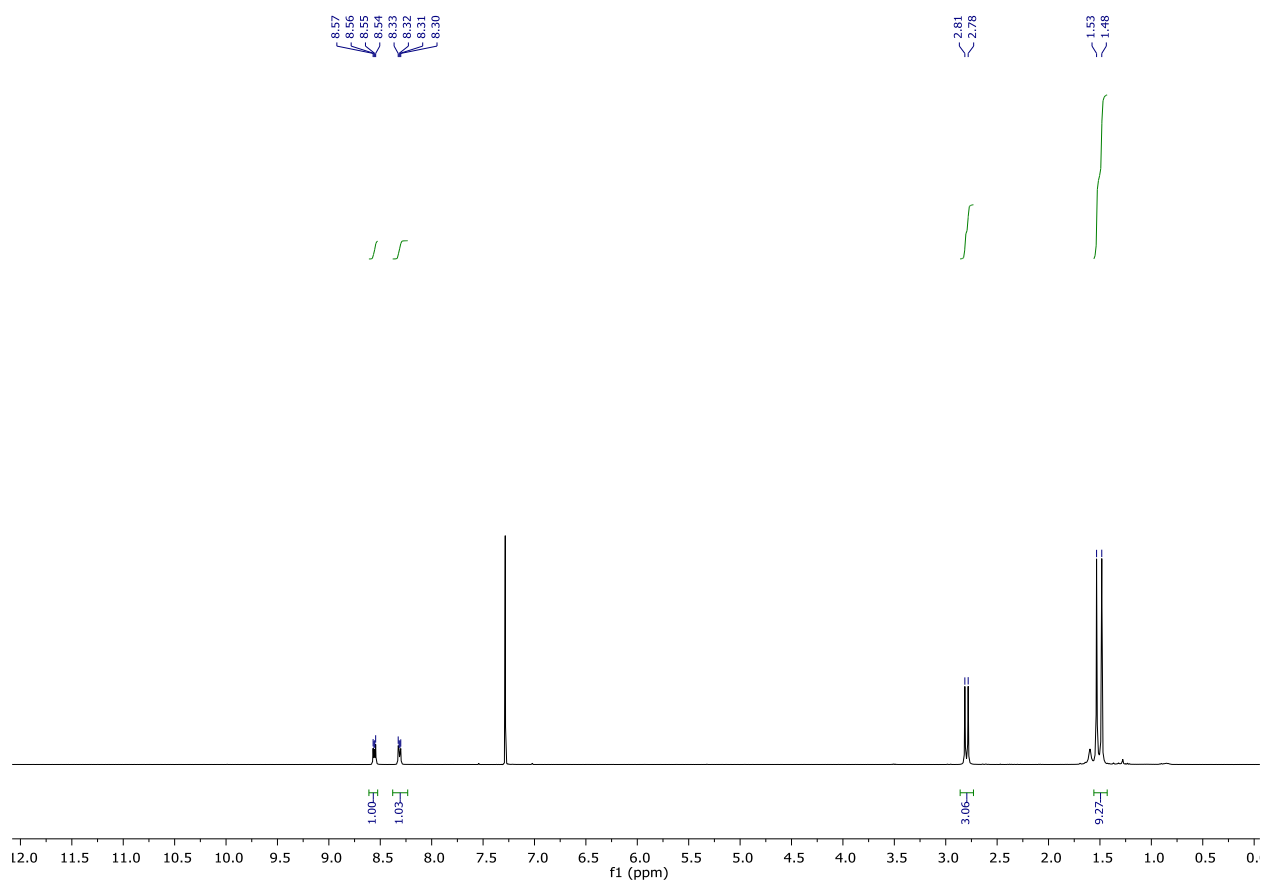


Figure S1. ^1H NMR spectrum of **1** in CDCl_3 at 298K.

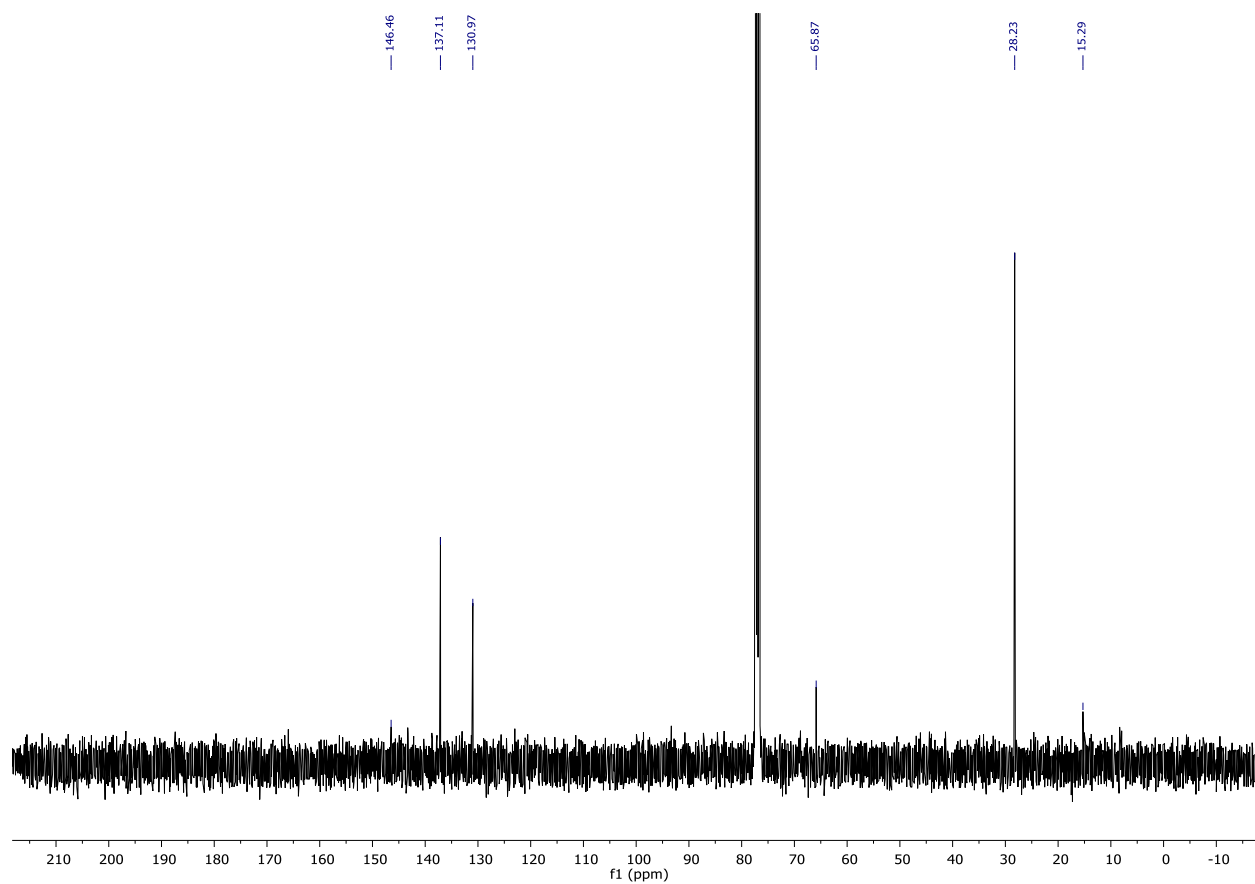


Figure S2. ^{13}C NMR spectrum of **1** in CDCl_3 at 298K.

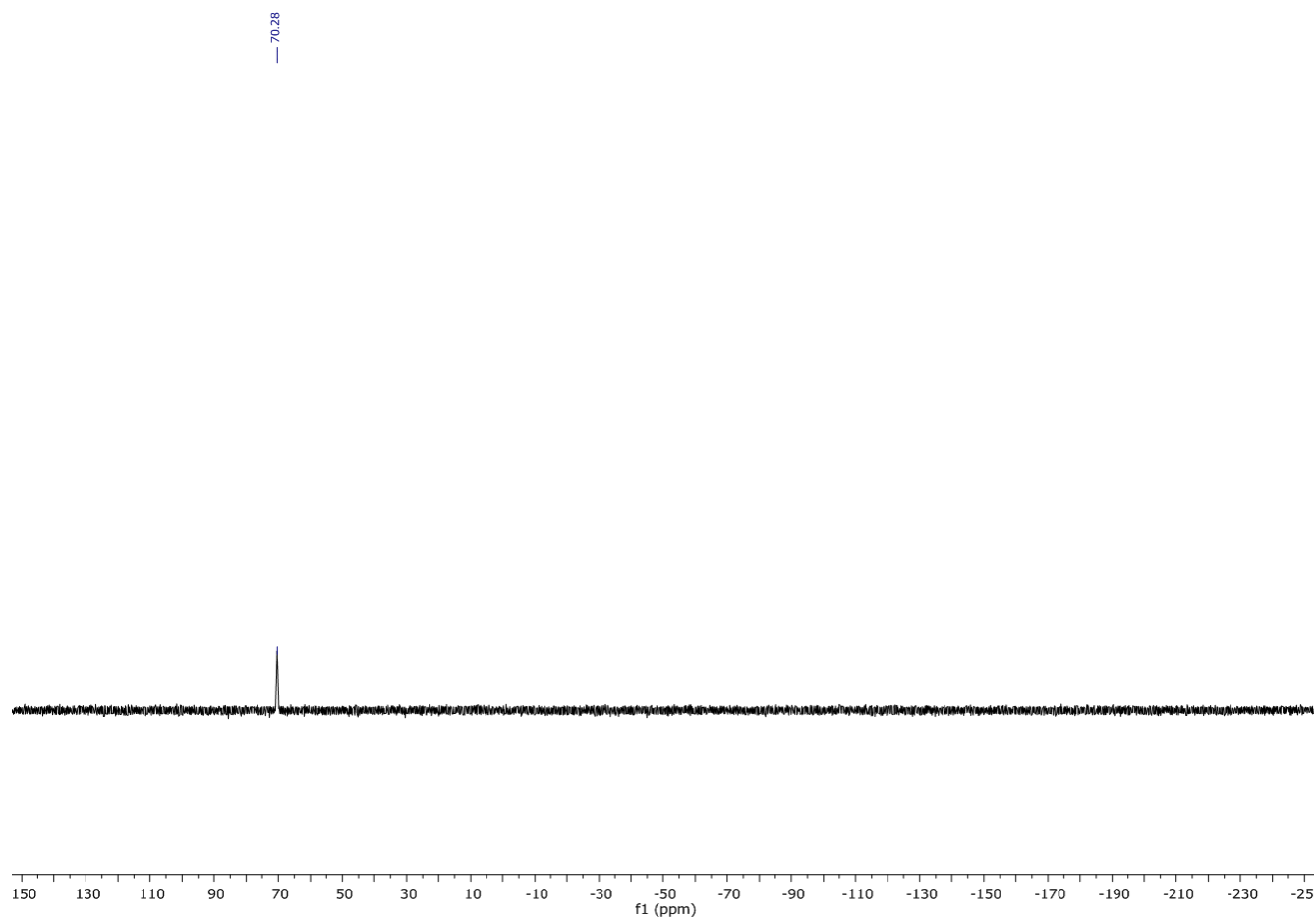


Figure S3. ^{31}P NMR spectrum of **1** in CDCl_3 at 298K.

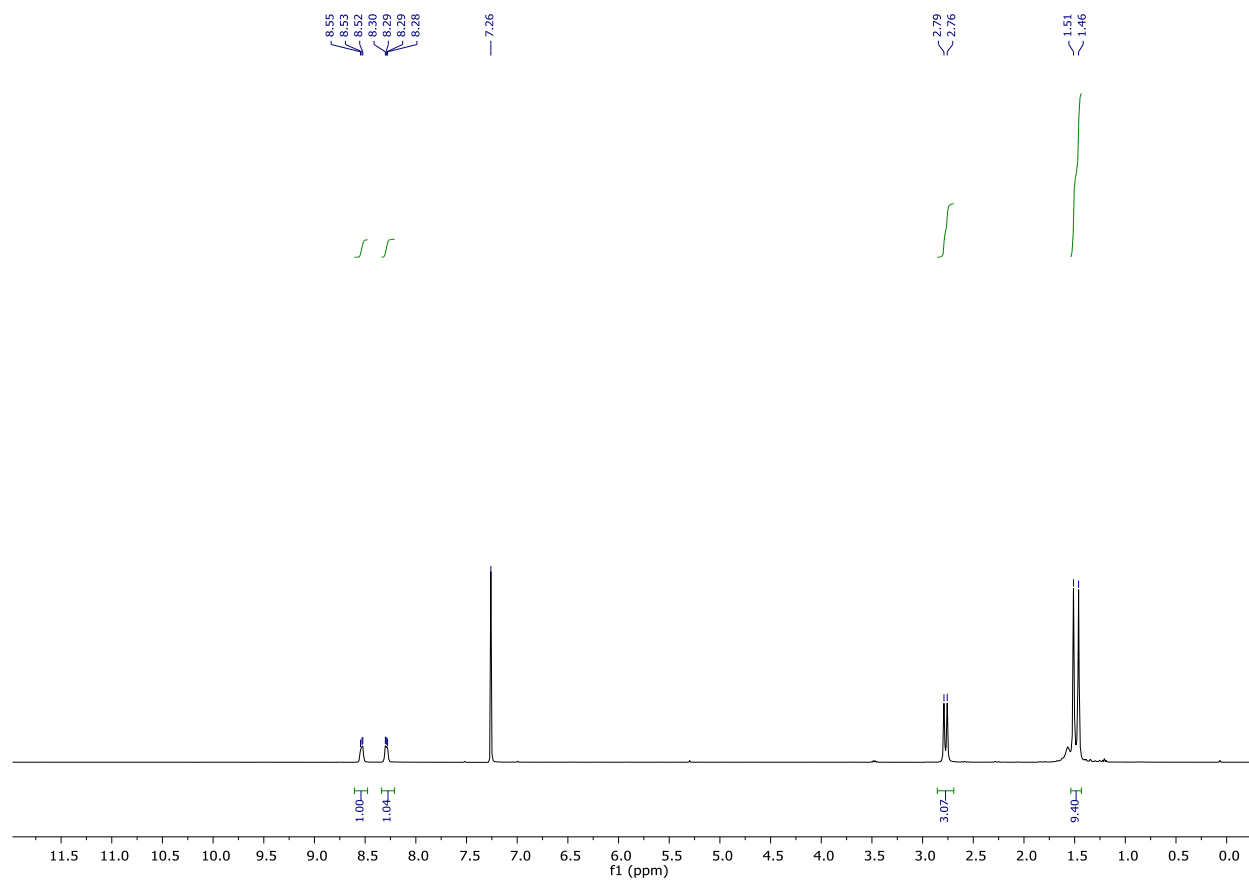


Figure S4. ¹H NMR spectrum of **2** in CDCl₃ at 298K.

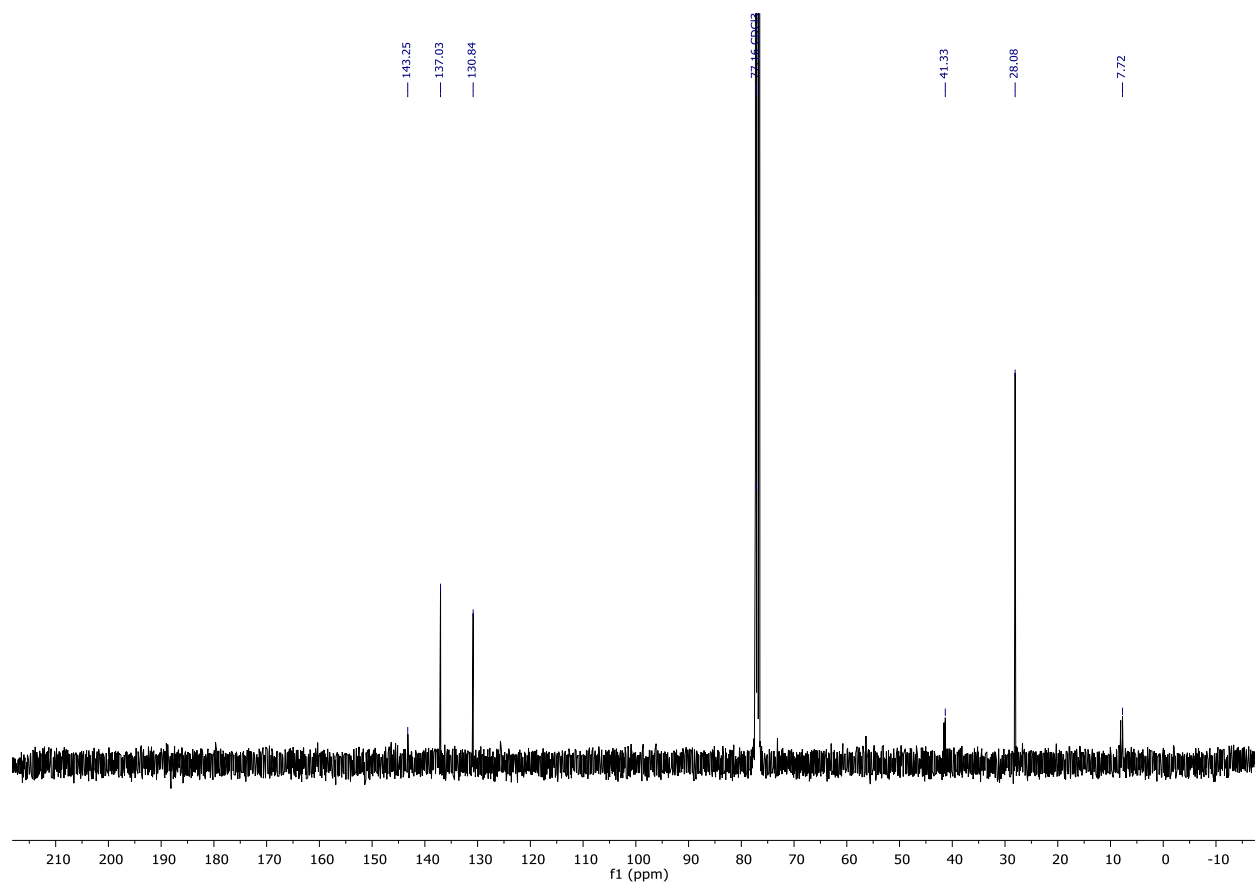


Figure. S5 ^{13}C NMR spectrum of **2** in CDCl_3 at 298K.

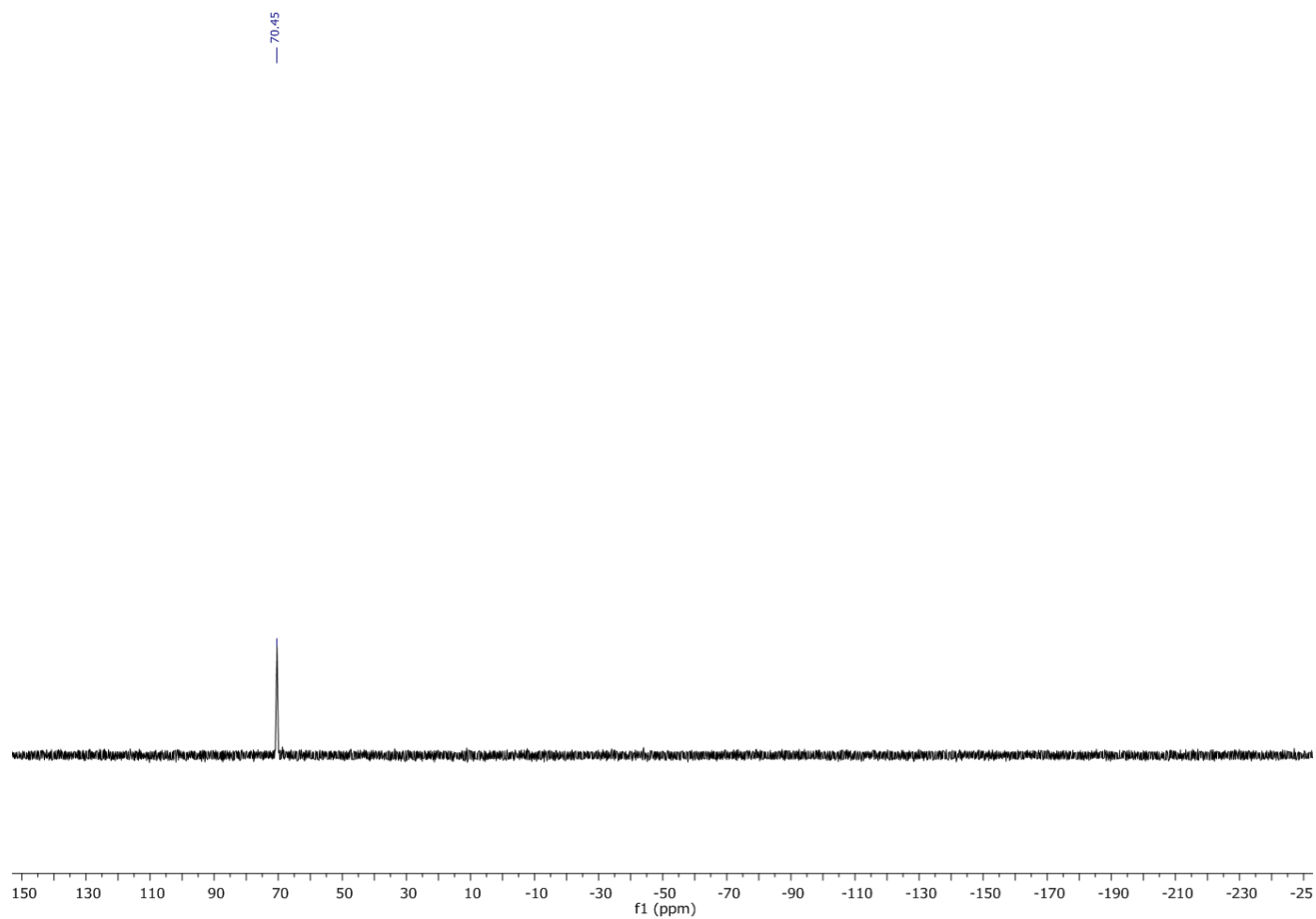


Figure. S6 ^{31}P NMR spectrum of **2** in CDCl_3 at 298K.

HRMS:

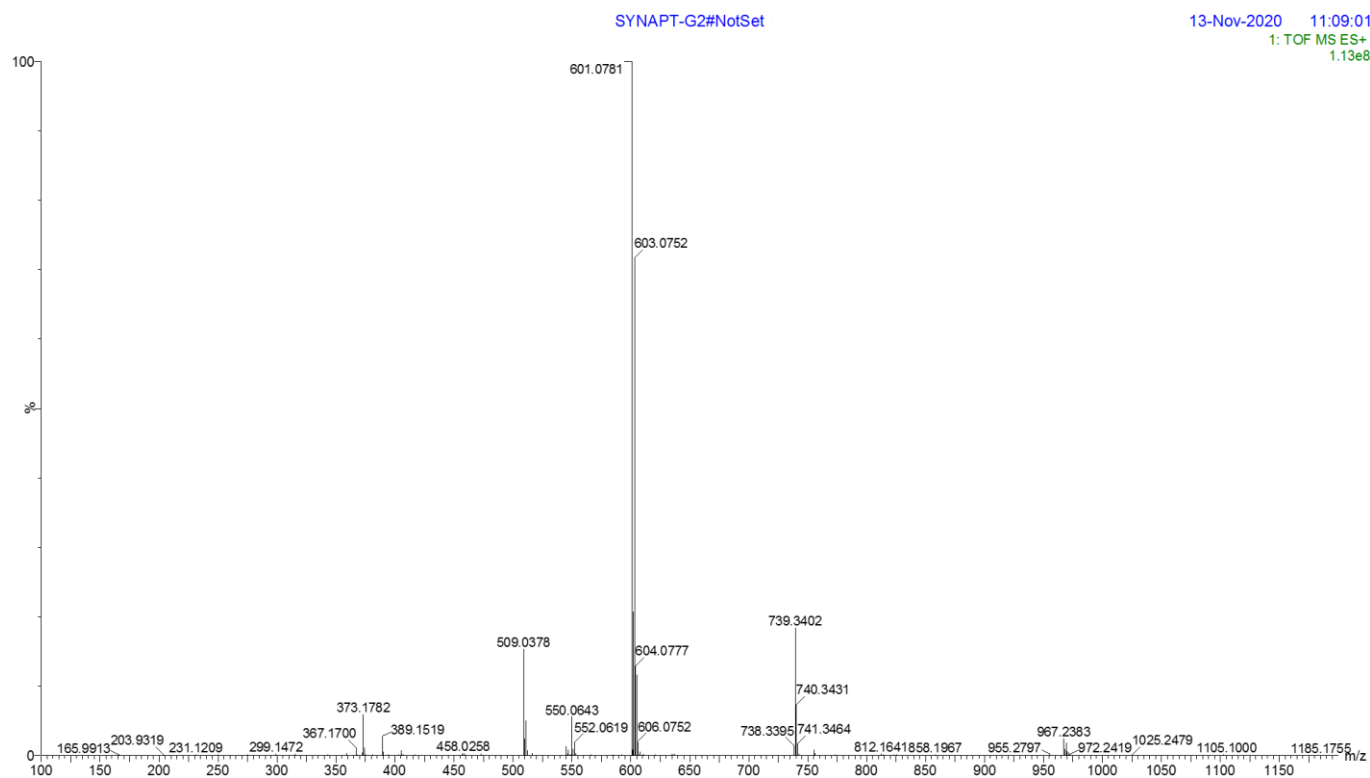


Figure S7. Full spectrum of HRMS of **1** – TOF MS ES⁺

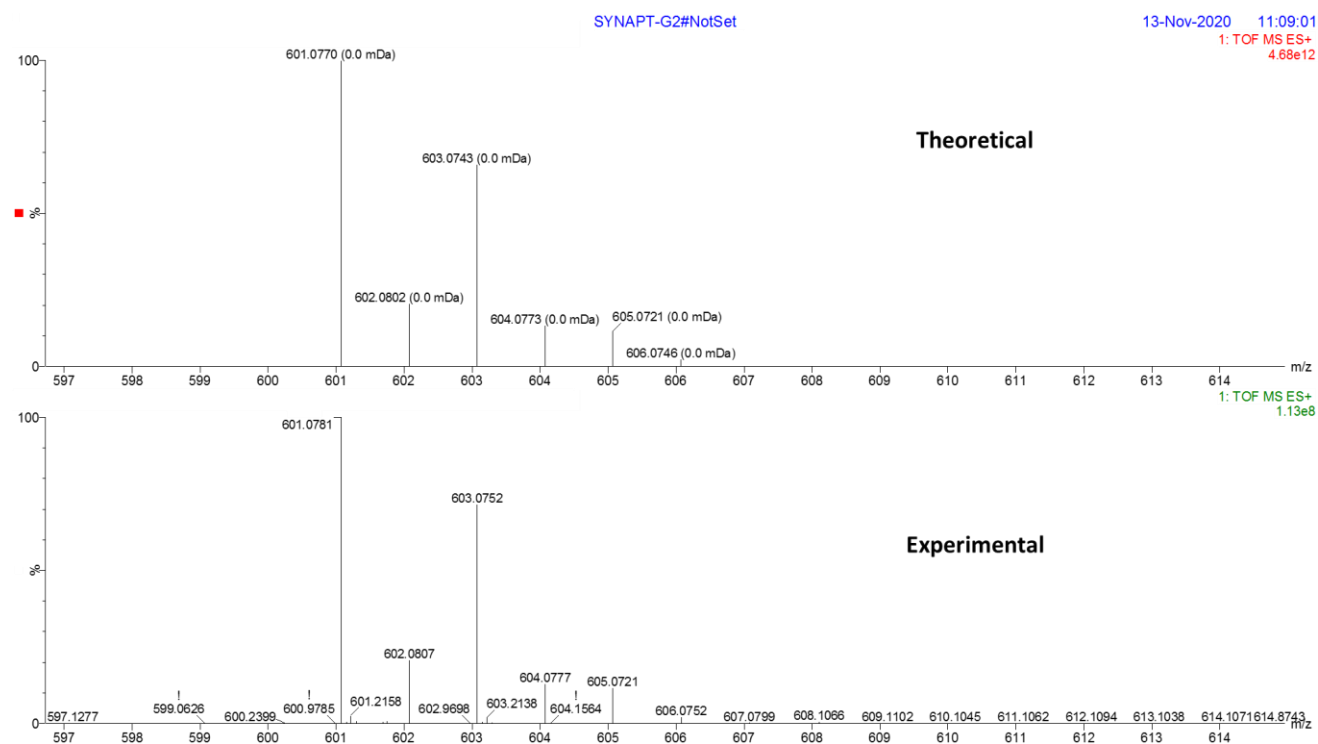


Figure S8. Experimental/Theoretical comparison of HRMS of **1** – TOF MS ES⁺

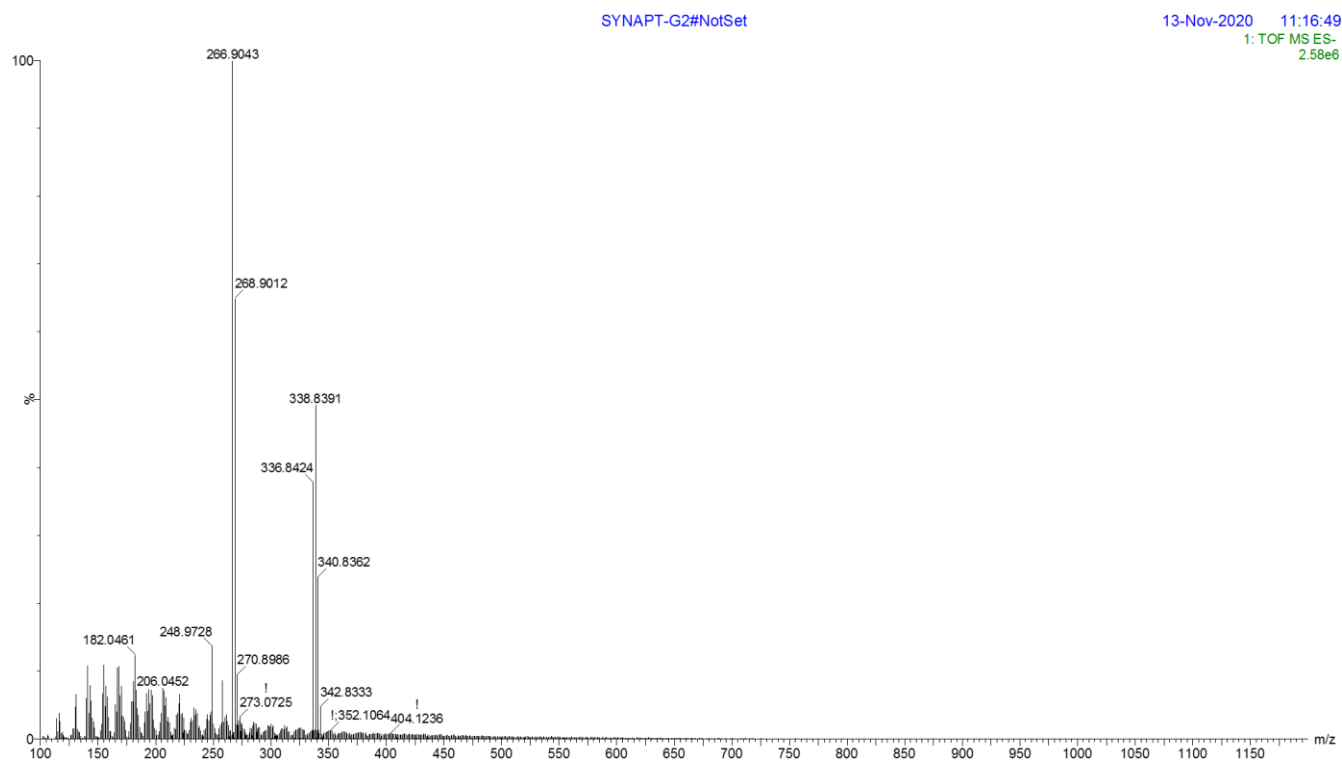


Figure S9. Full spectrum of HRMS of **1** - [AuCl₄]⁻ – TOF MS ES⁻

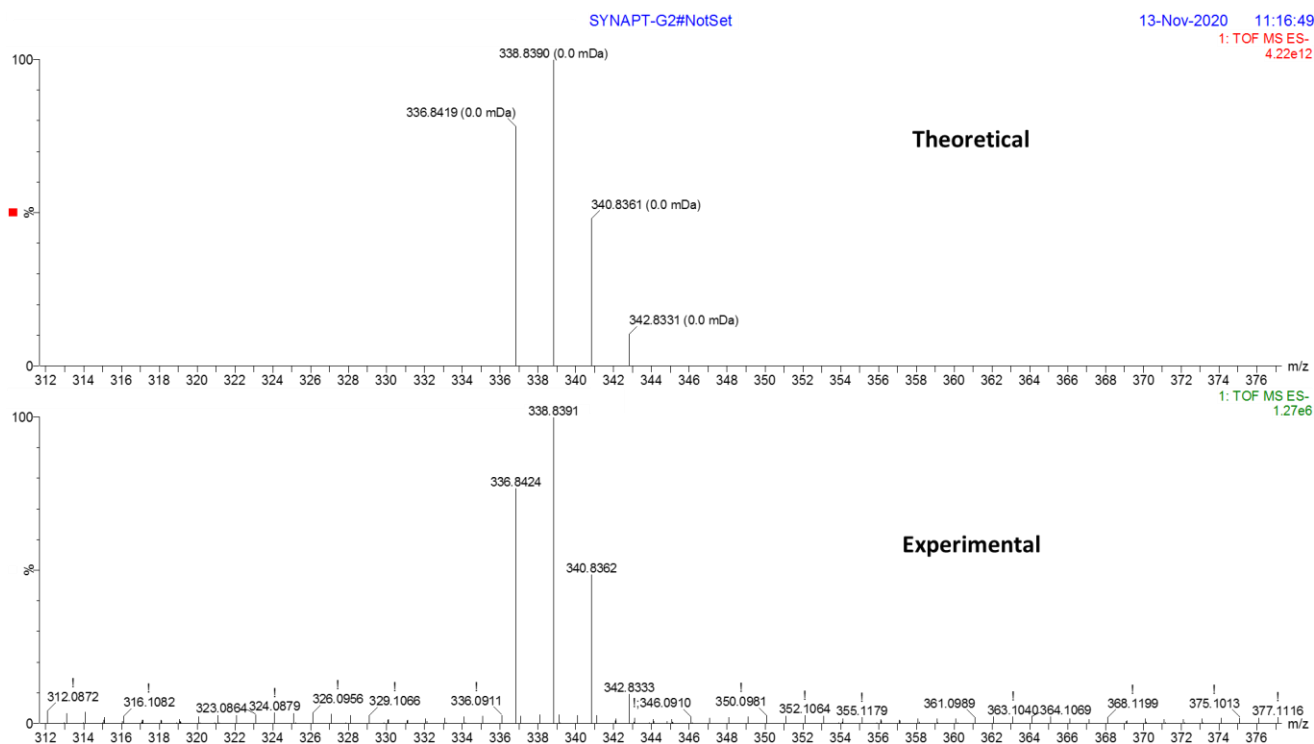


Figure S10. Experimental/Theoretical comparison of HRMS of **1** - $[\text{AuCl}_4]^-$ – TOF MS ES⁻

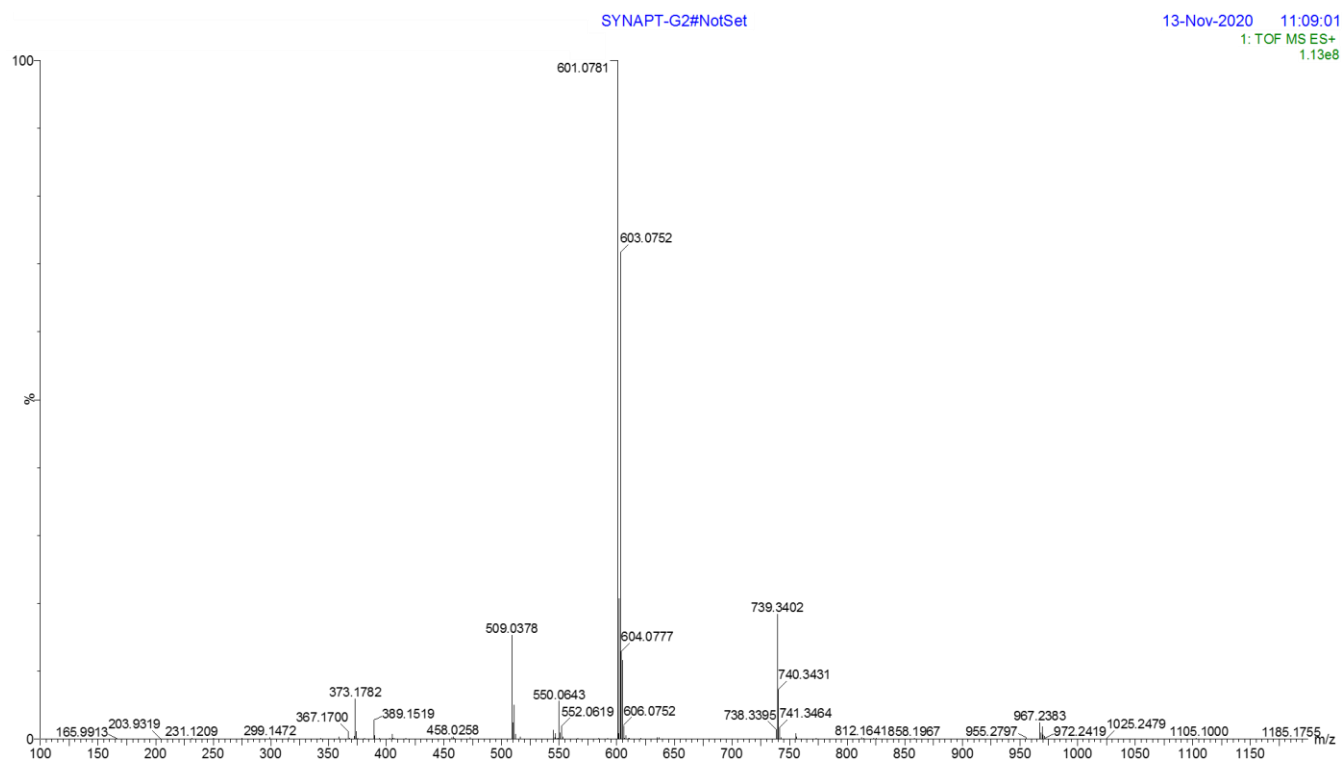


Figure S11. Full spectrum of HRMS of **2** – TOF MS ES⁺

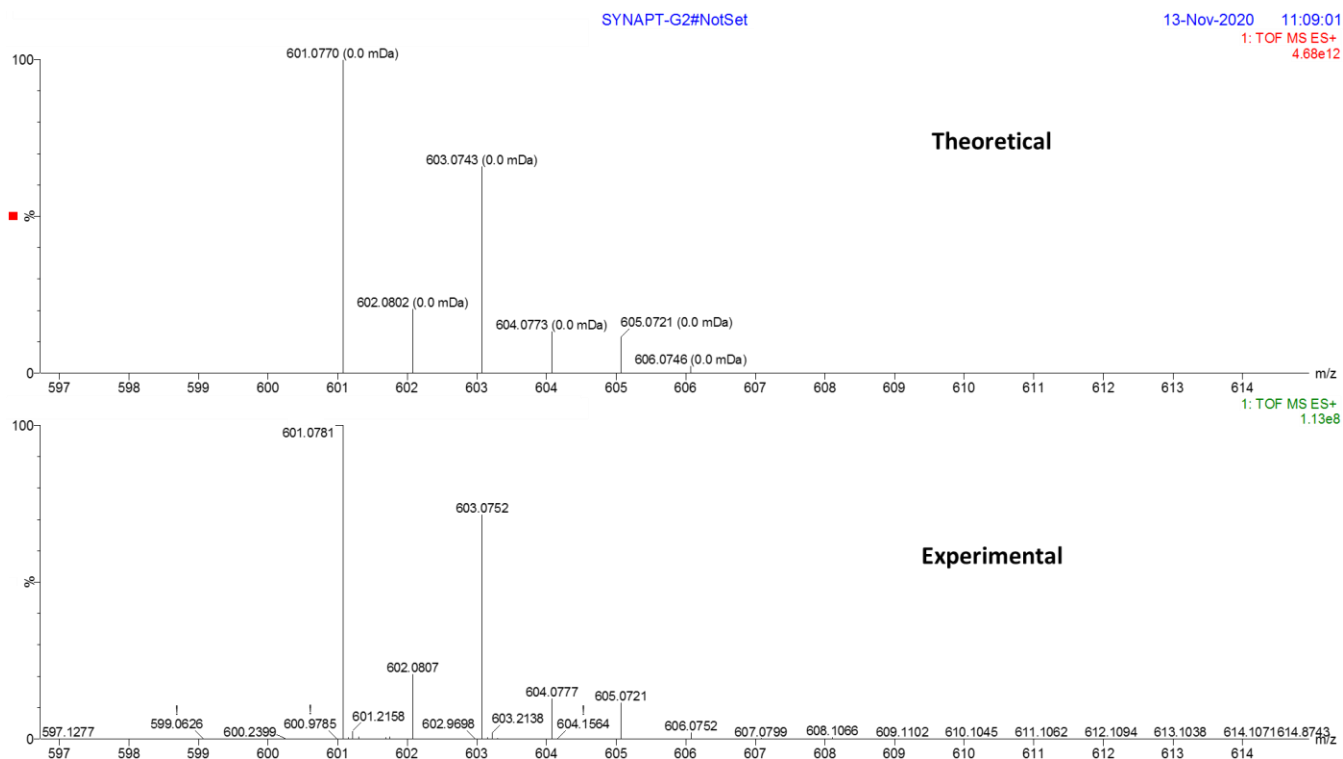


Figure. S12 Experimental/Theoretical comparison of HRMS of **2** – TOF MS ES⁺

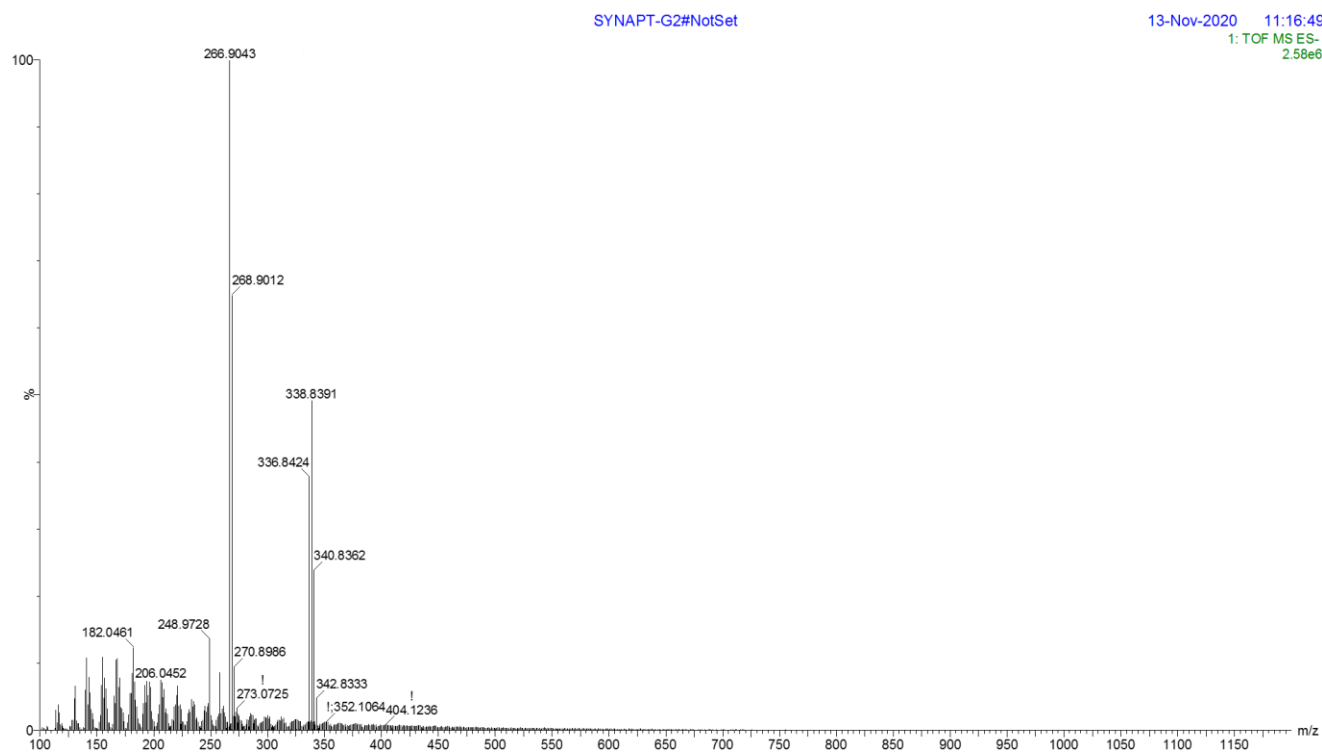


Figure. S13 Full spectrum of HRMS of **2** - [AuCl₄]⁻ – TOF MS ES⁻

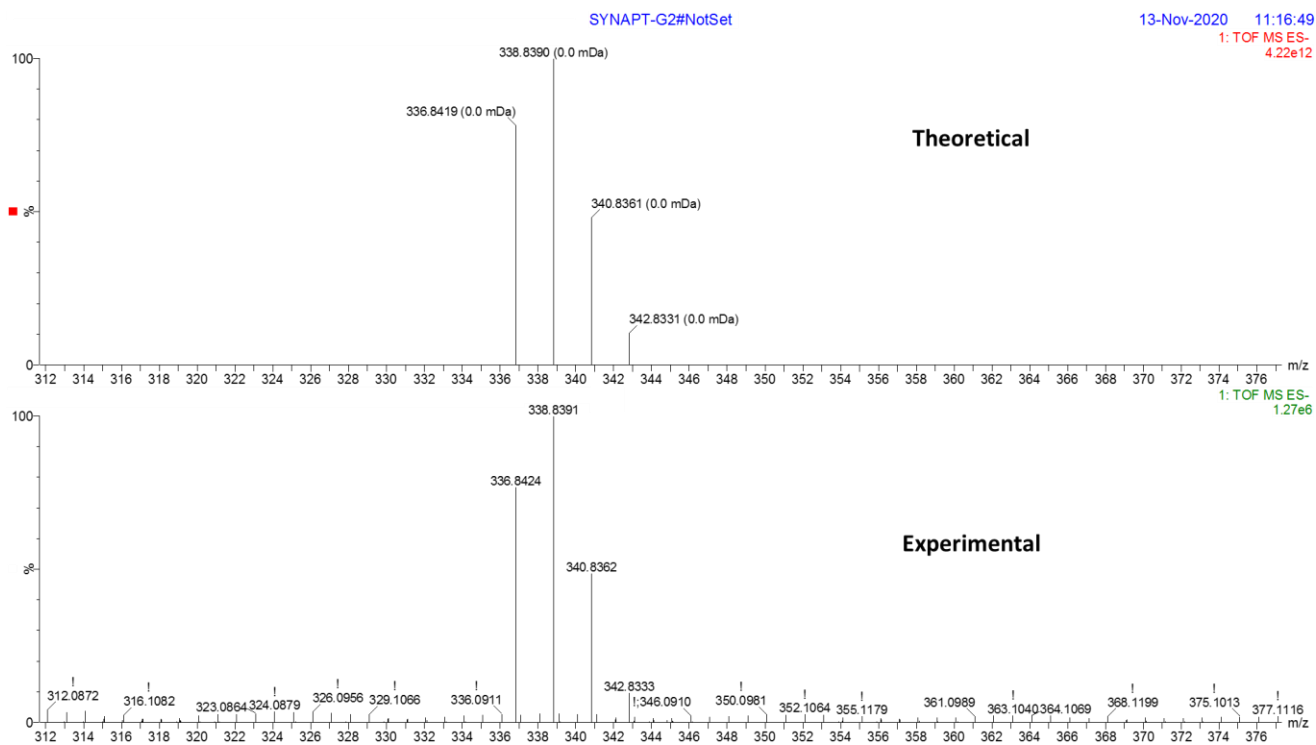


Figure S14 Experimental/Theoretical comparison of HRMS of **2** - [AuCl₄]⁻ – TOF MS ES⁻

HPLC Trace:

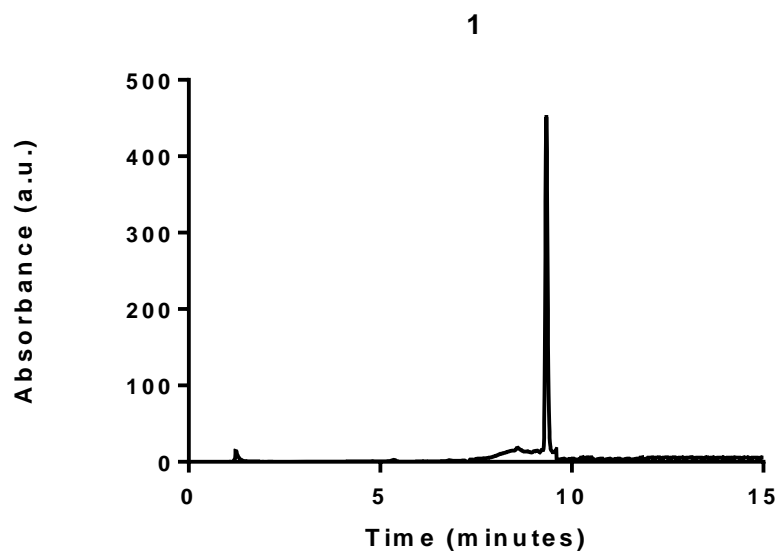


Figure S15 HPLC chromatogram of **1**, ($\lambda = 280$ nm).

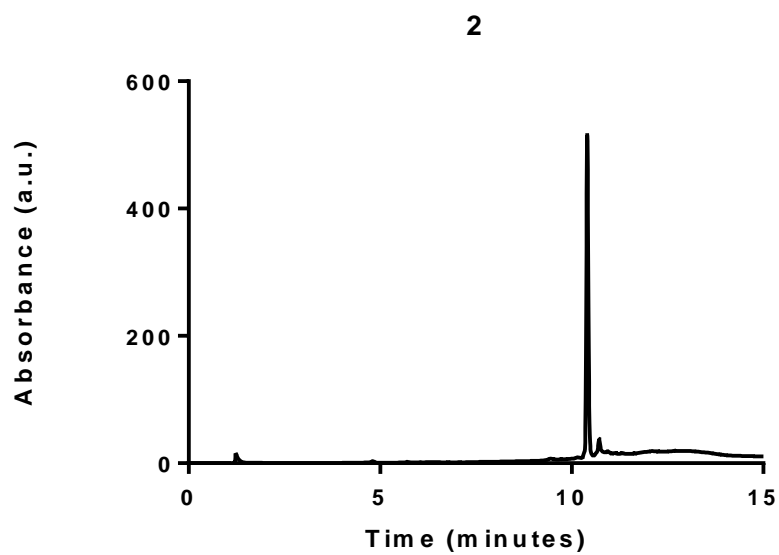


Figure S16. HPLC chromatogram of **2**, ($\lambda = 280$ nm).

Electrochemistry:

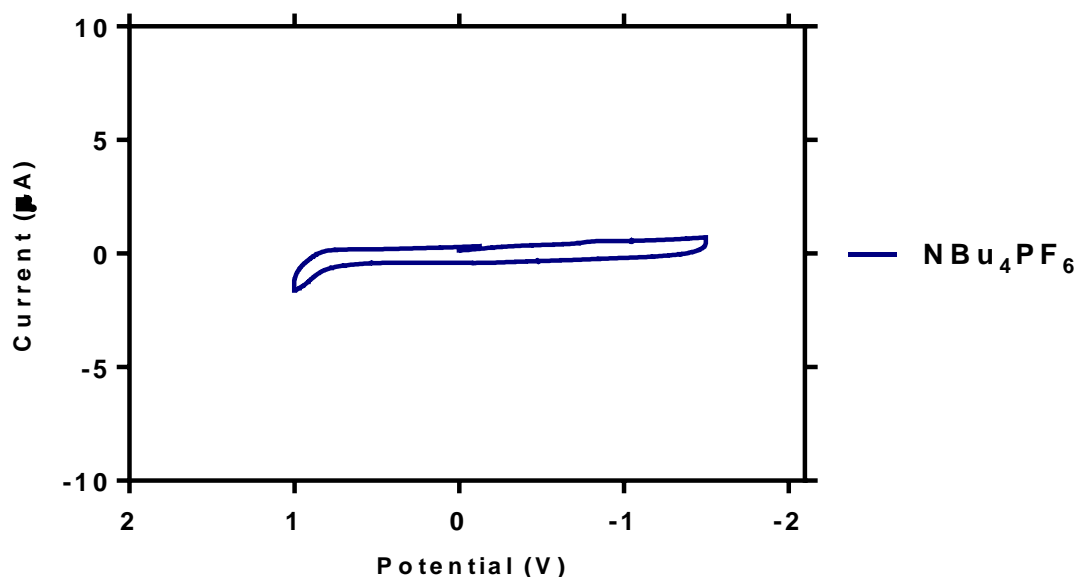


Figure S17. Cyclic voltammogram of the electrolyte (NBu_4PF_6) performed at room temperature at 100 mV/s scan rate. The potential is referenced to Ag/AgCl.

X-ray Accession Code: CCDC 2044732 contain the supplementary crystallographic data for this paper. These data can be obtained free of charge via www.ccdc.cam.ac.uk/data_request/cif, or by emailing data_request@ccdc.cam.ac.uk, or by contacting The Cambridge Crystallographic Data Centre, 12 Union Road, Cambridge CB2 1EZ, UK; fax: +44-1223-336033.